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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/048,082	01/24/2002	Faiz Feisal Sherman	7691	1652
27752	7590 02/10/2004		EXAMI	NER
THE PROCTER & GAMBLE COMPANY			FOX, JOHN C	
	UAL PROPERTY DIVISIOI LL TECHNICAL CENTER	•	ART UNIT	PAPER NUMBER
	R HILL AVENUE		3753	
CINCINNAT	I, OH 45224		DATE MAILED: 02/10/2004	8

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/048,082	SHERMAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	John Fox	3753	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by set any reply received by the Office later than three months after the dearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a roun. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communicat BANDONED (35 U.S.C. § 133).	ion.
Status			
<ul> <li>1) □ Responsive to communication(s) filed on 2</li> <li>2a) □ This action is FINAL. 2b) □</li> <li>3) □ Since this application is in condition for all closed in accordance with the practice uncertainty.</li> </ul>	This action is non-final. owance except for formal matter	·	is
Disposition of Claims			
4) ☐ Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) 2-10,19 and 25-35 ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1,11-18 and 20-24 is/are rejected 7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and Application Papers	<u>29</u> is/are withdrawn from consi d.	deration.	
9)☐ The specification is objected to by the Exa	miner.		
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b) □ objected to	by the Examiner.	
Applicant may not request that any objection to		· ·	
Replacement drawing sheet(s) including the ∞ 11) The oath or declaration is objected to by the	•	• • •	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	application No received in this National Stage	
Attachment(s)	_		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date</li> </ol>	8) Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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This action is responsive to the communication filed January 13, 2004.

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Claims 26-29 are withdrawn from further consideration by the examiner, 37 C.F.R. § 1.142(b), as being drawn to a non-elected inventions, the requirement having been traversed in Paper No. 5.

Claims 2-10, 19 and 25 are withdrawn from further consideration by the examiner, 37 C.F.R. § 1.142(b), as being drawn to a non-elected species, the requirement having been traversed in Paper No. 5. Although applicant listed claims 2-5 and 25 as reading on the elected species, the biasing means are disclosed as alternative embodiments to what is shown in the elected Figures 16-17. Although applicant listed claims 8-10 as reading on the elected species, these claims depend from nonelected claim 6 and cannot so read.

Responsive to applicant's remarks, appropriate rejoinder will be considered upon the determination of allowable subject matter.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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Claims 1, 15-18 and 21-24 are rejected under 35 U.S.C. § 103 as being unpatentable over Gschwendtner et al (US 5,400,824, of record) in view of Schumm, Jr. (US 5,837,394, of record). Gschwendtner et al teach a microvalve having a fixed body 21 with openings 24, a shutter 11 with openings 14, and electrostatic finger drives 31. Gschwendtner et al does not teach latching the valve. Schumm, Jr. shows another microvalve having plural openings on the fixed and movable members and teaches latching the slide in both the open and closed position, see Figure 8, column 7, line 66 to column 8, line 13, and claim 7. Figure 8 shows two cutouts in the movable element forming an "ear". It would have been obvious for one of ordinary skill in the art to have provided such a latch for the valve of Gschwendtner et al to similarly retain the valve in each of its positions. Claim 5 of Schumm, Jr. Claim 5 of Schumm, Jr. discloses that the actuators are powered to move and then the power is removed, suggesting the latches hold the valve in position. Moving the latches out of engagement prior to actuating the valve is considered to be an obvious step in the use of the proposed combination. Using latches biased to their

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engaged positions so power is used only when actuating the valve is considered to be an obvious step in the use of the proposed combination in view of the recognized need to manage power consumption. As to claim 17, the Gschwendtner et al valve is manufactured with a slight gap between the fixed and movable members, see column 5, lines 56+, which would inherently allow a slight leak through the valve. It is considered to be an obvious matter of design choice to use the valve without compensating for the gap in an application where a leak is acceptable.

Applicant's remarks have been fully considered but are not deemed to be persuasive. Figure 8 of Schumm, Jr. show an ear formed on a portion of the moveable member adjacent to two openings, which is an integral construction much the same as the instant device. The combination is thus suggested by the Prior Art and the rejection must be maintained.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

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A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication should be directed to Examiner Fox at (703) 308-2595 or John.Fox@uspto.gov. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0861. The fax number for TC 3700 is 703-872-9302. For responses after final the fax number is 703-872-9303. The Supervisory Primary Examiner for Art Unit 3753 is John Rivell who can be reached at (703) 308-2599 or at John.Rivell@uspto.gov.

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JOHN FOX
PRIMARY EXAMINER
ART UNIT 3753

jcf February 7, 2004